

# PATENT

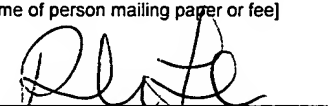
## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: HOPPE-9

|   |   |
|---|---|
| In re Application of:                                 | ) |
| THOMAS HOPPE  | ) |
| Cont. of Int. Appl. No.: PCT/EP02/09597               | ) |
| Int. Filing Date: August 28, 2002                     | ) |
| For: IMPROVED COOLING DEVICE FOR AN<br>ELECTRIC MOTOR | ) |

### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

|  |
|--|
| Express Mail mailing label number: <b>EV 431637840 US</b>  |
| Date of Deposit: <b>February 27, 2004</b>  |
| I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450". |
| <b>ANTONELLA FUSILLO</b><br>[Name of person mailing paper or fee]  |
| <br>[Signature]   |

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the following references A) to F) which were cited in the International Search Report issued by the European Patent Office with regard to the corresponding international patent application No. PCT/EP02/09597 and references G) to L). Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

|    | Country:   | Patent or<br>Appl. No: | Patentee or<br>Applicant: | Issue or<br>Filing Date: |
|----|--|------------------------|---------------------------|--------------------------|
| A) | USA  | US 4 749 921 A         | Chitayat                  | 06-07-1988               |
| B) | Germany  | DE 196 04 643 A        | Krauss Maffei             | 08-14-1997               |
| C) | Great Britain  | GB 2 352 094 A         | Anorad Corp.              | 01-17-2001               |
| D) | Germany  | DE 199 36 064 A        | Siemens Linear            | 02-08-2001               |
| E) | Japan  | JP 62 281754 A         | Shinko Electric           | 12-07-1987               |
| F) | Japan  | JP 2000 338173 A       | Ando Elecktric            | 12-08-2000               |
| G) | Drehstrom-Linearmotoren 1FN3, Firmenprospekt, Siemens AG, 2000 |                        |                           |                          |
| H) | Germany  | DE-AS 1 488 604        | Maschinenfabrik           | 08-07-1969               |
| I) | Germany  | DE 196 04 642 A1       | Krauss-Maffei             | 08-14-1997               |
| J) | Europe   | EP 0 729 215 A2        | Siemens AG                | 08-28-1996               |
| K) | Great Britain  | GB 890 687             | Ass. Electrical           | 03-07-1962               |
| L) | Germany  | DE 30 21 203 A1        | Siemens AG                | 12-10-1981               |

Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

☒ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.

☐ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.

☐ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.

that no fee under 37 C.F.R. §1.97 is due.

☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.

☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.

☐ The undersigned submits the following statement requesting consideration of this statement:

The undersigned hereby states:

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

☐ The fee of \$180.00 set forth in 1.17(p).

☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any

overpayment to Deposit Account No. 06-0502.

[X] The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report together with a translation of the relevant pages thereof. In addition, applicant notes with respect to any information that is not in English language as follows:

Reference G) is a brochure to provide background information about AC linear motors having a primary part and a secondary part with magnets. The primary part has fixed dimensions, while the secondary part consists of individual segments to suit the traversing range.

Reference H) describes a mounting arrangement for a laminated stator core of an electric machine. The laminations have recesses for receiving strips for forming cooling channels for passage of a liquid coolant.

Reference I) describes a linear motor in which the primary part (1) is cooled using a coolant circuit (7) to remove the quantities of heat loss arising in the current-carrying conductor windings so that the operational temperature required is not exceeded in the linear motor. The primary part (1) is surrounded completely by a cooling plate (10) through which coolant flows and by an enclosing housing (14). The cooling plate (10) is the element used to fasten the primary component (1) to that machine component (20) of the production machine which is

to be moved.

Reference J) describes a machine having individual cooling channels (3) provided in a profile element (4) attached to the machine housing (1). The profile elements each have a flat mounting surface (5) for attachment to a flat surface (2) on the machine housing, ensuring good thermal contact between the latter and the cooling segments. A heat conductive paste is provided between the profile elements and the bearing surfaces of the machine housing, and each profile element is fixed to the machine housing at its centre and releasably attached to it at either end.

Reference L) describes a externally ventilated electric machine with embedded straight inner cooling channels in a stator casing. Arranged between some of the inner cooling channels are straight outer cooling channels which are open to the outside

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted

By: 

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**Form PTO-1449**U.S. Department of Commerce  
Patent and Trademark Office**INFORMATION DISCLOSURE CITATION**

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|---|---|---|
| <b>Attorney's Docket No.</b><br><br><b>HOPPE-9</b>    | <b>Applicant</b><br><br><b>THOMAS HOPPE</b> | <b>Cont. of Int. Appl. No.</b><br><br><b>PCT/EP02/09597</b> |
| <b>Int. Filing Date</b><br><br><b>August 28, 2002</b> | <b>Group</b>                                | <b>Examiner</b>   |

**U.S. PATENT DOCUMENTS**

| Examiner Initial | Document Number | Date       | Name     | Class | Subclass | Filing Date, if appropriate |
|------------------|-----------------|------------|----------|-------|----------|-----------------------------|
|                  | 4,749,921       | 06-07-1988 | Chitayat |       |          |                             |
|                  |                 |            |          |       |          |                             |
|                  |                 |            |          |       |          |                             |
|                  |                 |            |          |       |          |                             |

**FOREIGN PATENT DOCUMENTS**

|  | Document Number  | Date       | Country       | Class | Subclass | Translation |
|--|------------------|------------|---------------|-------|----------|-------------|
|  | DE 196 04 643 A  | 08-14-1997 | Germany       |       |          | no          |
|  | DE 199 36 064 A  | 02-08-2001 | Germany       |       |          | no          |
|  | DE-AS 1 488 604  | 08-07-1969 | Germany       |       |          | no          |
|  | DE 196 04 642 A1 | 08-14-1997 | Germany       |       |          | no          |
|  | DE 30 21 203 A1  | 12-10-1981 | Germany       |       |          | no          |
|  | GB 2 352 094 A   | 01-17-2001 | Great Britain |       |          |             |
|  | GB 890 687       | 03-07-1962 | Great Britain |       |          |             |
|  | JP 62 281754 A   | 12-07-1987 | Japan         |       |          | yes         |
|  | JP 2000 338173   | 12-08-2000 | Japan         |       |          | yes         |
|  | EP 0 729 215 A2  | 08-28-1996 | Europe        |       |          | yes         |

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |  |   |
|--|--|---|
|  |  | Drehstrom-Linearmotoren1FN3, Firmenprospekt, Siemens AG, 03/2000, Order No.: 6ZB5411-0AP01-0BA1 |
|  |  |   |
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**Examiner:****Date considered:**

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.